Blazar Dashboard Documentation

Release 8.0.1.dev4

OpenStack

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Contents

1 Resource Availability Calendar

Blazar Dashboard features a resource availability calendar that displays a timeline of resources, showing when each resource is reserved.

Currently, physical hosts are the only supported resource type.

1.1 Configuration

In the Horizon settings, the option `OPENSTACK_BLAZAR_HOST_RESERVATION` can be configured.

```
OPENSTACK_BLAZAR_HOST_RESERVATION = {
    'enabled': True,
    'calendar_attribute': 'hypervisor_hostname',
}
```

If `enabled` is `True`, the host calendar will be enabled. The option `calendar_attribute` is used to label each row of the calendar. By default, it uses the `hypervisor_hostname` attribute of a host. If the host has resource properties set, they could also be used.

In order to be able to view the calendar, a user needs permission for `blazar:oshosts:get` and `blazar:oshosts:get_allocations`.

2 Blazar Dashboard Installation Guide

2.1 Installation

Enabling in DevStack

The DevStack plugin for Blazar automatically sets up blazar-dashboard if Horizon is enabled, which is the case by default.

Manual Installation

Begin by cloning the Horizon and Blazar dashboard repositories:

```
git clone https://opendev.org/openstack/horizon
git clone https://opendev.org/openstack/blazar-dashboard
```

Create a virtual environment and install Horizon dependencies:

```
cd horizon
tox -e runserver --notest
```

Set up your `local_settings.py` file:

```
cp openstack_dashboard/local/local_settings.py.example openstack_dashboard/
↪local/local_settings.py
```

Open up the copied `local_settings.py` file in your preferred text editor. You will want to customize several settings:

- `OPENSTACK_HOST` should be configured with the hostname of your OpenStack server. Verify that the `OPENSTACK_KEYSTONE_URL` and `OPENSTACK_KEYSTONE_DEFAULT_ROLE` settings are correct for your environment. (They should be correct unless you modified your OpenStack server to change them.)

Install Blazar dashboard with all dependencies in your virtual environment:

```
.tox/runserver/bin/pip install -e ../blazar-dashboard/
```

And enable it in Horizon:

```
ln -s /path/to/blazar-dashboard/blazar_dashboard/enabled/_90_project_
↪reservations_panelgroup.py openstack_dashboard/local/enabled
ln -s /path/to/blazar-dashboard/blazar_dashboard/enabled/_90_admin_
↪reservation_panelgroup.py openstack_dashboard/local/enabled
ln -s /path/to/blazar-dashboard/blazar_dashboard/enabled/_91_project_
↪reservations_leases_panel.py openstack_dashboard/local/enabled
ln -s /path/to/blazar-dashboard/blazar_dashboard/enabled/_91_admin_
↪reservation_hosts_panel.py openstack_dashboard/local/enabled
```

Start horizon and it runs with the newly enabled Blazar dashboard.

Or to test the plugin run:

```
tox -e runserver -- 0.0.0.0:8080
```

to have the application start on port 8080 and the horizon dashboard will be available in your browser at http://localhost:8080/